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BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747

EXAMINER
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ALEJANDRO, RAYMOND

ART UNIT	PAPER NUMBER
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1745

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/069,001

Applicant(s)

SAWADA ET AL.

Examiner

Raymond Alejandro

Art Unit

1745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 5, 8, 9, 14, 16 and 25-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 5, 8-9, 14, 16 and 25-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***DETAILED ACTION***

***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/06/05 has been entered.

This paper is in reply to the amendment entered with the filing of the foregoing RCE. The applicants have overcome certain art rejections. Refer to the aforementioned amendment for substance of applicant's rebuttal arguments. However, the present claims are rejected over a new ground of rejection as well as over the same applied art as seen hereinbelow. Therefore, the current application is rejected for the reasons of record:

***Specification***

1. The amendment filed on 12/06/05 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: (claim 1) the recitation "*thermally bonded thereto*". Although applicant pointed out where the new or amended claim is apparently supported, there appear not to be a written description of the claim limitation "*thermally*" in the application as filed. That is to say, the newly claimed subject matter is not adequately described in the original disclosure. For instance, the first full paragraph on page 15 of the specification

Art Unit: 1745

simply recites the phrase “*fusedly bonded*”, and even though it might be said that “*fusedly bonding*” does require certain degree of heating (or thermal activity), it is uncertain whether the phrase “*fusedly bonded*” equates to “*thermally bonded*”, that is to say, if both phrases (i.e. “*fusedly bonded*” and “*thermally bonded*”) are technical synonym, and/or equally applicable from the technical point of view. Moreover, if that is the case, then it should not be an inconvenience for the applicant to amend the present claims as supported in the specification as filed (i.e. by reciting the term “*fusedly bonded*” instead of “*thermally bonded*”).

Applicant is required to cancel the new matter in the reply to this Office Action.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1, 5, 8-9, 14, 16 and 25-27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The added material which is not supported by the original disclosure is as follows: (claim 1) the recitation “*thermally bonded thereto*”. Although applicant pointed out where the new or amended claim is apparently supported, there appear not to be a written description of the claim limitation “*thermally*” in the application as filed. That is to say, the newly claimed subject matter is not adequately described in the original disclosure. For instance,

Art Unit: 1745

the first full paragraph on page 15 of the specification simply recites the phrase “*fusedly bonded*”, and even though it might be said that “*fusedly bonding*” does require certain degree of heating (or thermal activity), it is uncertain whether the phrase “*fusedly bonded*” equates to “*thermally bonded*”, that is to say, if both phrases (i.e. “*fusedly bonded*” and “*thermally bonded*”) are technical synonym, and/or equally applicable from the technical point of view. Moreover, if that is the case, then it should not be an inconvenience for the applicant to amend the present claims as supported in the specification as filed (i.e. by reciting the term “*fusedly bonded*” instead of “*thermally bonded*”). Applicant is required to cancel the new matter in the reply to this Office Action.

#### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

#### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 1745

6. Claim 1 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over the Japanese publication 54-99972 (hereinafter referred to as “the JP’972 publication”).

The JP’972 publication discloses a printed circuit board forming an insulating layer on a grafted polyolefin film (TITLE). In particular, it is disclose that an inert layer is formed on the surface of a grafted polyolefin film which is thereafter immersed in a metal plating solution to form a metal plating layer thereon (ABSTRACT). *Thus, the JP’972 publication at once envisages a laminate layered-structure including a polyolefin film having deposited thereon an inert layer and a metal plating layer over both layers. Accordingly, the JP’792 publication provide the necessary structural interrelationship to meet the claimed requirement of a metal layer having a surface-treated layer formed thereon which is an inert protective layer; and a layer of a polyolefin formed over the surface treated layer.*

**1<sup>st</sup> Examiner’s note:** *as to the specific preamble reciting “a laminate for sealing an electrolyte or protecting an electrode of a battery”, it is pointed out that the preamble still refers to intended use. That is, the claim is directed to a laminate structure per se and the foregoing preamble phrase is only a statement of ultimate intended utility.*

**2<sup>nd</sup> Examiner’s note:** *the limitations: a) “formed by oxidative or acid treatment of said metal layer” and b) “thermally bonded” are being construed as **product-by-process limitation** and therefore, it is contended that the product itself does not depend on the process of making it. Accordingly, in a product-by-process claim, the patentability of a product does not depend on its method of production. (emphasis added →) Having shown that the prior art of record comprises the same laminate structure (i.e. the metal layer, the surface treated layer, and the polyolefin*

Art Unit: 1745

*layer in the same structural arrangement), it is further noted that the product in the instant claims is the same as or obvious over the product of the prior art.*

Therefore, the claims are anticipated by the JP'972 publication. However, if the claims are not anticipated the claims are obvious as it has been held similar products claimed in product-by-process limitations are obvious In re Brown 173 USPQ 685 and In re Fessman 180 USPQ 324 (Refer to MPEP 2113: Product-by-Process Claims).

### ***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

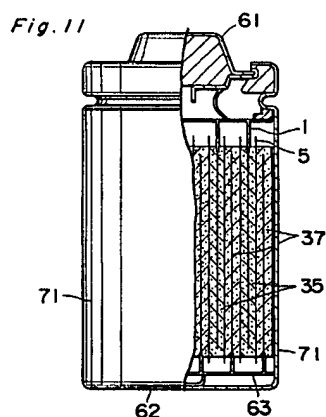
8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nonaka et al 2002/0138958.

The present application is directed to a laminate for sealing a battery electrolyte or electrode wherein the disclosed inventive concept comprises the specific laminate structure.

Nonoka et al disclose a lithium ion secondary battery as shown in Figure 11 comprising a positive electrode 35, a negative electrode 37 and a film separator 5 for separating both electrodes 35 and 37 (SECTION 0015). It is further disclosed that a porous polypropylene film is used as the separator (SECTION 0035); and in conventional lithium secondary batteries, aluminum foil is formed with natural oxide films on its surface so that thin isolating film have often been formed in the interface therebetween (*the inert protective or passive film formed by oxidative of said metal*) (SECTION 0015).

**Figure 11** below illustrates the battery comprising at least a negative electrode 37 and a film separator 5 and forming a laminate structure (*←emphasis added*). Thus, Nonoka et al directly embodies a laminate layered-structure including a polyolefin film (the separator film) in contact with an aluminum foil which has thereon a natural oxide film. Accordingly, Nonoka et al also provide the necessary structural interrelationship to meet the claimed requirement of a metal layer having a surface-treated layer formed thereon which is an inert protective layer or passive film; and a layer of a polyolefin formed over the surface treated layer.





**1<sup>st</sup> Examiner's note:** *as to the specific preamble reciting "a laminate for sealing an electrolyte or protecting an electrode of a battery", it is pointed out that the preamble still refers to intended use. That is, the claim is directed to a laminate structure per se and the foregoing preamble phrase is only a statement of ultimate intended utility.*

**2<sup>nd</sup> Examiner's note:** *the limitations: a) "formed by oxidative or acid treatment of said metal layer" and b) "thermally bonded" are being construed as **product-by-process limitation** and therefore, it is contended that the product itself does not depend on the process of making it. Accordingly, in a product-by-process claim, the patentability of a product does not depend on its method of production. (**emphasis added** →) Having shown that the prior art of record comprises the same laminate structure (i.e. the metal layer, the surface treated layer, and the polyolefin layer in the same structural arrangement), it is further noted that the product in the instant claims is the same as or obvious over the product of the prior art.*

Nonoka et al disclose a battery laminate structure as seen and described. However, the preceding prior art does not expressly disclose the specific order of layers.

To that end, it has been held that re-arrangement, reversal or duplication of parts is obvious. Succinctly stated, fact that a layer of the claimed laminate is structurally re-arranged, reversed or duplicated is not sufficient by itself to patentably distinguish over an otherwise old feature unless there are new or unexpected results as it is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed order of layering (specific laminate structure) was significant. In re Japikse 86 USPQ 70. In re Kuhle 188 USPQ 7. In re Gazda 104 USPQ 400. In re Harza 124

Art Unit: 1745

USPQ 378. (*Refer to MPEP 2144.04 [R-1] Legal Precedent as Source of Supporting*

*Rationale: VI. Reversal, Duplication, OR Rearrangement of Parts*).

10. Claims 1, 5, 8-9, 14, 16 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Japanese document JP 11-086808 (herein called "*the JP'808 document*") in view Nonaka et al 2002/0138958.

The present application is directed to a laminate for sealing a battery electrolyte or electrode wherein the disclosed inventive concept comprises the specific laminate structure.

With reference to claims 1, 14 and 16:

The JP'808 document discloses a sealing bag for nonaqueous electrolyte battery, the sealing bag seals the positive and negative electrodes and the electrolyte (Title/Abstract). *Thus, the layered sealing bag meets the requirement of being a seal film for sealing a battery component such as an electrolyte or an electrode.*

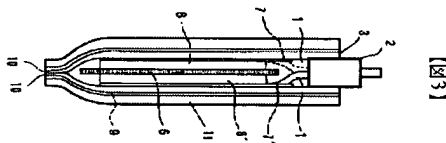
**1<sup>st</sup> Examiner's note:** *as to the specific preamble reciting "for use as a seal film for sealing an electrolyte of a battery or as a protective film for protecting an electrode of a battery", it is pointed out that the preamble refers to intended use. That is, the claim is directed to a laminate per se and the foregoing preamble phrase is only a statement of ultimate intended utility.*

**2<sup>nd</sup> Examiner's note:** *the limitations: a) "formed by oxidative or acid treatment of said metal layer" and b) "thermally bonded" are being construed as **product-by-process limitation** and therefore, it is contended that the product itself does not depend on the process of making it. Accordingly, in a product-by-process claim, the patentability of a product does not depend on its*

Art Unit: 1745

*method of production. (emphasis added →) Having shown that the prior art of record comprises the same laminate structure (i.e. the metal layer, the surface treated layer, and the polyolefin layer in the same structural arrangement), it is further noted that the product in the instant claims is the same as or obvious over the product of the prior art.*

It is disclosed that the sealing bag is formed with a material stuck together with plastic layers inserted with a metal layer such as aluminum foil and a metal deposition layer, a PET film is stuck thereto and a thermoplastic resin such as polyethylene is also stuck thereto (Abstract/Solution). **Figure 3** below illustrates the specific layered structure of the sealing feature, particularly, the Al foil 9, the plastic layers 11 and the heat seal layers 10.



**TABLE 1** below shows the specific constitution of sealing bag including: the PET layer, an urethane adhesive, the Al foil, the acid-modified LDPE, and the heat seal layers Y and Z.

【表 1】

封入袋のシート構成	
PET	(12 μm)
ウレタン系接着剤	(5 μm)
アルミ箔	(9 μm)
酸変成LDPE	(20 μm)
ヒートシール層Y	(30 μm)
ヒートシール層Z	(30 μm)

**With respect to the surface treated layer:** the JP'808 document also discloses that the sealing bag 3 preferably comprises a laminated material comprising a substrate having a metallic vapor deposition layer sandwiched between plastic layers 10 and 11 (SECTIONS 0010-0015). Thus, the substrate itself having the metallic vapor deposition layer acts as the surface-treated layer over the substrate surface. Furthermore, it is also disclosed that the plastic film 11 and the

Art Unit: 1745

metallic foil layer 9 are adhered to each other by using adhesive, such as urethane, epoxy and polyester resins (SECTIONS 0010-0015). *Hence, the foregoing adhesive layer, to some extent, chemically treat the surface of the Al foil or the metallic layer.*

***With respect to the layer of an adhesive resin:*** it is disclosed that the acid-modified LDPE is an acid-modified polyolefin being modified by a carboxylic acid (SECTIONS 0010-0015).

As to claim 5:

The JP'808 document discloses the metal layer is made of aluminum foil (ABSTRACT/SOLUTION).

On the matter of claims 8-9:

It is disclosed that resin composition used for a plastic layer is mainly made of acid-denatured polyethylene or acid-denatured polypropylene (ABSTRACT/SOLUTION). It is disclosed that the acid-modified LDPE is an acid-modified polyolefin being modified by a carboxylic acid (SECTIONS 0010-0015).

The JP'808 document discloses a layered laminate made of a seal film according to the foregoing aspects. However, the JP'808 does not expressly disclose the specific chemically surface-treated layer.

As to claims 1, 25-27:

Nonaka et al discloses a passive film may be formed on a metallic surface per se wherein a metal material is oxidized in an oxidative atmosphere (SECTION 0085). It is also disclosed that a metal material can be anodized using anodic oxidation thereof (SECTION 0085). Additionally, it is taught that in conventional lithium secondary batteries, aluminum foil is

Art Unit: 1745

formed with natural oxide films on its surface so that thin isolating film have often been formed in the interface therebetween (*the inert protective or passive film formed by oxidative of said metal*) (SECTION 0015).

**Examiner's note:** *additionally, as to the limitation, "an oxidatively or chemically surface-treated metal layer", it is noted that a method limitation incorporated into a product claim does not patentable distinguish the product because what is given patentably consideration is the product itself and not the manner in which the product was made. Therefore, the patentability of a product is independent of how it was made. This is to address the limitations reciting the specific chemical treatment material/technique: even though the such limitation may impart, somehow, a different structure (the one formed by the specific surface-treated layer), it is noted that as long as the surface thereon is chemically or oxidatively treated, the present claims satisfy the intended invention of having a chemical-oxidative surface treated layer. Thus, the chemically/oxidatively surface treated layer is formed thereon regardless of the specific chemical treatment material or technique.*

In view of the above, it would have been obvious to one skilled in the art at the time the invention was made to use the specific chemically surface-treated layer of Nonaka et al in the layered seal-forming laminate of the JP'808 document as Nonaka et al discloses that in conventional secondary batteries, natural oxide films are formed on the surfaces of metallic components its surface to obtain a thin isolating film in the interface. Thus, Nonaka et al clearly envisions the formation of natural oxide films on metal surfaces to protect the metal surfaces per se. In consequence, Nonaka et al directly teaches the advantage of using the specific chemically surface-treated layer as instantly claimed. Moreover, it has been held that re-arrangement,

Art Unit: 1745

*reversal or duplication of parts is obvious. Succinctly stated, fact that a claimed feature is structurally re-arranged, reversed or duplicated is not sufficient by itself to patentably distinguish over an otherwise old feature unless there are new or unexpected results as it is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed layered laminate was significant. In re Japikse 86 USPQ 70. In re Gazda 104 USPQ 400. In re Harza 124 USPQ 378.*

### ***Response to Arguments***

11. Applicant's arguments with respect to claims 1 and 5 have been considered but are moot in view of the new ground(s) of rejection. See item 9 above, new ground of rejections over Nonaka et al'958.

12. Applicant's arguments filed on 12/06/05 have been fully considered but they are not persuasive. This applies to all previous ground of rejections which have been maintained herein for the reasons of record. That is, art rejections other than the art rejection set forth in item 9.

13. Additionally, the examiner likes to further address certain applicant's comments about the Nonaka et al'958 reference. With respect to applicant's arguments that "*it would be clear to the skilled artisan that such a polyolefin does not have adhesive properties*", it is contended that the present claims are silent as to the specific adhesive degree. Moreover, the very same claims do not clearly set forth the specific polyolefin material for ascertaining the requisite degree of adhesiveness. Thus, since the recited "*polyolefin*" material covers a very large number of applicable materials which can be used therefor, it is contended that "*a film/layer*" comprising any "*polyolefin material*" would produce a film/layer exhibiting the specific adhesive properties. As to applicant's arguments concerning "*the surface treatment of the metal layer*", the examiner

Art Unit: 1745

again contends, in addition to the product-by-process nature of such a limitation as explained above, that the claimed “*oxidative or acid treatment of the metal layer*” is almost an all-encompassing limitation including a large number of applicable techniques known in the art. Accordingly, the examiner strenuously contends that any surface treatment of the metal layer may read on “*the claimed surface treatment*”. Let’s also make clear that by no means the examiner is herein backing off from this position that such “*a product-by-process limitation*”, in the absence of unexpected results, add nothing to the patentability of present claims because the ultimate inventive concept at issue is a product per se and not a method of making the product. Thus, having shown that the prior art of record allows those of ordinary skill in the art to arrive at the specifically claimed laminate structure by minor modifications such as rearrangement of layers, the burden is still on the applicant to show significant product distinction (i.e. unexpected results or superior characteristics) in a product-by-process claims.

14. With respect to applicant’s arguments in reference to the rejection under the JP’972, the examiner firstly points out what applicant has already admitted for the reasons of record: (*refer to first (1st) full paragraph on page 8 of the amendment of 12/06/05*) “*The newly quoted prior art publication JP 54-99972 teaches a resin/metal laminate, which has a structure somewhat resembling to the laminate according to the present invention*”. Thus, laminate structure difference is not an issue based on applicant’s own admission that the laminate structure of the JP’972 somewhat resembles the laminate structure of the present invention . Now, turning to applicant’s comment that the JP’972 reference is directed to “*a flexible printed board*”, while applicant is correct that the JP’972 discloses said printed board, there is nothing in the present claim language fairly stipulating that the 3-layer laminate structure of the flexible printed board

Art Unit: 1745

is not prior art against the very broadly claimed laminate. In fact, the present claims only claims, a laminate comprising: a) a metal layer, b) “a surface-treated” layer, and c) “an adhesive layer”; nothing more, nothing less. Simply put, the claimed laminate is any laminate, and as such, any laminate reads on the claimed laminate. With respect to applicant’s comments about not being “*directed to protection of electrode*” and making “*the sheet surface inactive*”, the fact that applicant has recognized another advantage/disadvantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Additionally, applicant’s arguments regarding “*the electro-deposition*” lack patentable weight in view of the product claim. In other words, in the absence of unexpected results and also in the absence of dissimilar laminate structures, the patentability of a product is independent of how it was made. Finally, a courtesy copy of JP’972 abstract, the document relied upon by the examiner, is being facilitated to the applicant.

15. Last but not least, applicant’s arguments regarding the rejection combining the JP’808 and Nonaka et al’958 have been reviewed and considered in their entirety. At the outset, it appears that applicant has failed to recognized that such a rejection is based upon a hypothetical combination of reference under the 35 USC 103 statutory basis. Thus, attacking references independently, individually or singly rather than collectively, together or in combination is not an opposite manner to overcome the rejection so based, and one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In addition to that, in the second full paragraph of page 10,



Art Unit: 1745

applicant discusses or mentions the following: “*The Examiner should be aware that to support an anticipation rejection...*”, applicant is reminded that this is not an anticipation rejection, instead, it is an obviousness-based rejection. Applicant is respectfully requested to take a closer look at the statutory basis of this rejection. Nonetheless, in the absent of further persuasive comments, remarks or arguments, applicant is reminded that the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

The following response to applicant’s arguments pertain, in general, to all of the ground of rejections discussed supra:

16. The principal contention of applicants’ arguments is premised on the assertion that the prior art of record does not disclose/involve “*the use of an oxidatively or chemically surface-treated metal as required by applicants’ claimed invention*”. However, this assertion is still insufficient to overcome the rejection. First of all, the rejected claims have been now construed as being directed to a product-by-process recitation. In this regard, although applicants are entitled to define a product by using process/method limitations, what is given patentably consideration is the product itself and not the manner in which the product was made. In this case, the **combined** prior art teaches the specific structural arrangement of the laminate. In consequence, the references are teaching substantially the same product and constituents as the product made by the product-by-process limitation of the instant claims. Therefore, the

Art Unit: 1745

patentability of a product is independent of how it was made. However, there may be situations when the manner in which a product was made should be given consideration. Thus, burden is on applicants to show differences in product-by-process claims as well as in product comparisons. Further, even though the prior art may fail to disclose other physical properties, in view of the substantially similar products being disclosed in the instant application, the examiner has a reasonable basis to suspect that the claimed product and the combined prior art's layered structure would be substantially the same. Since PTO does not have proper equipment to carry out the analytical tests, the burden is then shifted to applicants to provide objective evidence demonstrating the claimed product is necessarily different from the prior art's product, and that the difference is unobvious (*Refer to MPEP 2113: Product-by-Process Claims*). Accordingly, applicants have not provided yet objective or factual evidence such as unexpected results and/or a structure comparison to show how the present claims patentably differentiate from the applied-combined prior art. In the event applicants further argue that "an oxidatively or chemically surface-treated metal layer" is structurally different, it is contended that applicants have failed to state how the implied manufacturing process steps would be expected to impart distinctive structural characteristics to the final product. See, e.g., *In re Garnero*, 412 F.2d 276, 279, 162 USPQ 221, 223.

### ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Alejandro whose telephone number is (571) 272-1282. The examiner can normally be reached on Monday-Thursday (8:00 am - 6:30 pm).

Art Unit: 1745

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raymond Alejandro  
Primary Examiner  
Art Unit 1745

  
**RAYMOND ALEJANDRO  
PRIMARY EXAMINER**